

Title (en)

RESIN-COATED SAND FOR MULTILAYERED CASTING MOLD

Title (de)

HARZBESCHICHTETER SAND FÜR MEHRLAGIGE GIESSFORM

Title (fr)

SABLE RECOUVERT DE RESINE DESTINE A UN MOULE A COUCHES MULTIPLES

Publication

**EP 1864728 B1 20110817 (EN)**

Application

**EP 06713802 A 20060215**

Priority

- JP 2006302661 W 20060215
- JP 2005039010 A 20050216
- JP 2005327245 A 20051111

Abstract (en)

[origin: EP1864728A1] To provide resin-coated sand for a multilayer mold in which the consolidation strength of the casting mold obtained by using it and gas permeability thereof are improved at the same time, the amount of occurrence of pyrolytic products (tar, soot and the like) derived from organic substances is effectively inhibited, when molding is performed using such a casting mold, and further, the casting mold after molding can exhibit excellent collapsibility. Disclosed is resin-coated sand for a multilayer mold, in which surfaces of refractory particles are coated with a binder composition containing a phenolic novolak resin having an ortho/para bond ratio of methylene groups of 1.5 or more and an aromatic amine as indispensable constituents, and the grain fineness number is from 80 to 150.

IPC 8 full level

**B22C 1/22** (2006.01)

CPC (source: EP US)

**B22C 1/2253** (2013.01 - EP US); **Y10T 428/25** (2015.01 - EP US); **Y10T 428/259** (2015.01 - EP US); **Y10T 428/2991** (2015.01 - EP US); **Y10T 428/2993** (2015.01 - EP US); **Y10T 428/2995** (2015.01 - EP US); **Y10T 428/2996** (2015.01 - EP US); **Y10T 428/2998** (2015.01 - EP US)

Cited by

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**EP 1864728 A1 20071212**; **EP 1864728 A4 20081015**; **EP 1864728 B1 20110817**; JP 2006255782 A 20060928; JP 4413851 B2 20100210; US 2008021133 A1 20080124; US 7919179 B2 20110405; WO 2006088064 A1 20060824

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